

Distributor Catalog 510-B

(supersedes Distributor Catalog 510-A)

Dunco relays

**STOCK DELIVERIES FROM
FRANCHISED DISTRIBUTORS**

. . . at factory prices!

Selected as the most popular and widely used relays from the more than 5,348 Struthers-Dunn relay types, the relays listed here meet a high percentage of today's engineering, production and maintenance requirements. We offer 24-hour shipping service—or less—on practically every item at factory prices.

STRUTHERS-DUNN, Inc., Pitman, N. J.

World's largest assortment of relay types



DUNCO

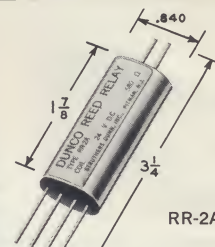
REED RELAYS

Designed for exceptionally fast low-level and light load switching in computer and data handling assemblies. Standard, miniature, and shielded types represent the most complete "packaged" line on the market today. All feature sturdy dry reed switches enclosed in DC coils and encapsulated in convenient forms for printed circuit or panel mounting in any position. See Dunco Reed Relay Catalog "A."

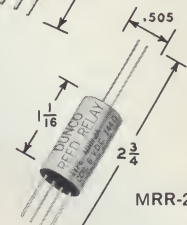
Type	Contacts	Cross-Section	Net
Standard "RR" Types. (Wrap-around magnetic shields. Bodies 1 7/8" long)			
RR1A	1 Form A	.640 dia.	\$2.90
RR2A	2 Form A	.640 x .840	4.50
RR4AF	4 Form A	.790 x 1.383	7.80
Magnetically shielded "RR" Types. (0.2" grid-spaced terminals)			
RR1A1BM	1 Form A, 1 Form B	.800 x .550	\$6.40
RR2A2BM	2 Form A, 2 Form B	1.200 x .550	11.20
RR2BM	2 Form B	.800 x .550	6.40
RR1CM	1 Form C (SPDT)	.600 x .550	11.50
RRLM1CM*	1 Form C, latching	.600 x .550	10.70
RRLM1CM102†	1 Form C, latching	.600 x .550	11.50
Miniature "MRR" Types. (Wrap-around magnetic shields. Bodies 1.062" long)			
MRR1A	1 Form A	.405 dia.	6, 12 VDC \$3.80 24 VDC \$5.60
MRR2A	2 Form A	.405 x .505	5.60 7.00
MRR4A	4 Form A	.505 x .805	9.60 12.40
MRR12A	12 Form A	.605 x 1.805	24.80 31.20
Magnetically shielded "MRR" Type (0.2" grid-spaced terminals)			
MRR2A2BM	2 Form A, 2 Form B	1.795 x .795 x .495	\$17.00

BASIC REED CHARACTERISTICS

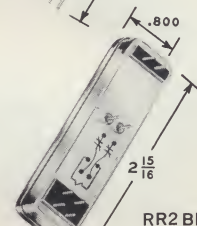
MAX. CONTACT CAPACITIES	RR Type Relays 15 watts (volts x current) 250 volts 1 ampere	MRR Type Relays 4 watts (volts x current) 250 volts 125 milliamperes
CONTACT RESISTANCE	0.05 ohm, maximum	0.2 ohm, maximum
INTERNAL ATMOSPHERE	Dry, inert gas	Dry, inert gas
LIFE EXPECTANCY (Operations), at maximum rating—	20,000,000	10,000,000
at 1/2 maximum rating—	100,000,000	20,000,000
at dry circuit levels—	200,000,000	200,000,000
MINIMUM BREAKDOWN	400v ac, rms	250v ac, rms
OPERATING POWER (approx.)	0.5 watts/pole (nominal) 0.2 watts/pole (minimum)	125 mw/pole (nominal) 80 mw/pole (minimum)



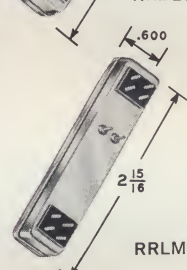
RR-2A



MRR-2A



RR2 BM



RRLM1CM

AEROSPACE AND MILITARY RELAYS

Made under controlled environmental conditions, these hermetically-sealed relays comply with specifications for guided missile, aircraft, ground control systems, undersea and similar uses.

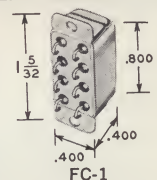
FC-1 and FC-1-P: Features all-welded internal construction in 1/2 crystal can size. Solder hook terminals on FC-1. Plug-in terminals on FC-1-P. Tested to MIL-R-5757D. Shock: 50G for 11 msec. Vibration: 30G to 2000 cy. Operate/Release: 6 msec. max. Bounce: 2 msec. max. See Bulletin FC-101.

FC-4-250 and FC-6-250: Designed & tested to MIL-R-5757/7 and /1 respectively. Shock: 50G for 11 msec. Vibration: 15G to 2000 cy. Operate/Release: 10 msec max. on FC-4-250, 15 msec max. on FC-6-250. Bounce: 300 μsec max. See Bulletin RY1.

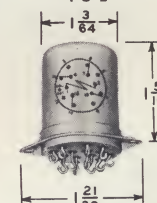
FC-215: Compact power relay of all-welded internal construction.

Tested to MIL-R-5757D. Shock: 50G for 11 msec. Vibration: 20G to 2000 cy. Operate/Release: 15 msec. max. Bounce: 2 msec. max. See Bulletin FC-215.

FC-400 & FC-406 Series: Dual-coils, balanced armatures and bifurcated contacts provide exceptional vibration resistance and low operating power requirements. Plug-in terminals on FC-400-3, FC-400-4, FC-406-3, FC-406-4. Solder hook terminals on others. Tested to MIL-R-6106C requirements. Shock: 25G for 11 msec. Vibration: 10G to 1500 cy. Operate/Release: 20 msec max. for DC types. Bounce: .0005 sec. See Data Bulletins MS01, MS02, MS61, MS62.



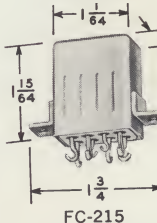
FC-1



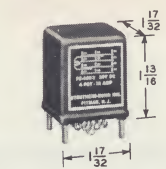
FC-4-250



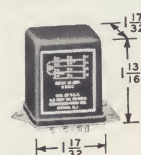
FC-6-250



FC-215



FC-400-1 & -2
(same dimensions for
FC-406-1 & -2)



FC-400-3 & -4
(same dimensions for
FC-406-3 & -4)

Δ Type	Government Designation†	Contact Arrangements	Contact Amps.	Weight	Net
FC-1	MIL-R-5757D	2P-DT	2	11 grms.	\$14.00
FC-1-P	MIL-R-5757D	2P-DT	2	11 grms.	14.00
FC-1-MV**	MIL-R-5757D	2P-DT	2	11 grms.	14.00
FC-1-PMV**	MIL-R-5757D	2P-DT	2	11 grms.	14.00
FC-4-250	RY4LB383L01 (MIL-R-5757/7)	4P-DT	2	3 oz.	16.60
FC-6-250	RY4LC383L01 (MIL-R-5757/1)	6P-DT	2	3.5 oz.	17.60
FC-215	MIL-R-5757D	2P-DT	10	2 oz.	12.00
FC-400-1	MS-25271-D1 (MIL-R-6106C)	4P-DT	10	6 oz.	16.50
FC-400-2*	MS-25271-A1 (MIL-R-6106C)	4P-DT	10	6 oz.	22.85
FC-400-3	MS-25327-D1 (MIL-R-6106C)	4P-DT	10	6 oz.	18.90
FC-400-4*	MS-25327-A1 (MIL-R-6106C)	4P-DT	10	6 oz.	24.50
FC-406-1	MS-25269-D1 (MIL-R-6106C)	6P-DT	5	6 oz.	18.75
FC-406-2*	MS-25269-A1 (MIL-R-6106C)	6P-DT	5	6 oz.	26.90
FC-406-3	MS-25329-D1 (MIL-R-6106C)	6P-DT	5	6 oz.	20.05
FC-406-4*	MS-25329-A1 (MIL-R-6106C)	6P-DT	5	6 oz.	25.75

* Includes self-contained rectifier for 115V, 400 cy operation.

† Ambient Temperature Ranges:

MIL-R-5757D types: -65°C to +125°C.

MIL-R-6106C types: -70°C to +120°C.

** For Low Level Use. Miss-tested before shipment.

Δ Changed from previous edition.

Duncontrols FOR SIMPLIFIED, ECONOMICAL INDUSTRIAL CONTROL

Made in matching plug-in types, these 4 Duncontrol relay types simplify industrial panels which, in the past have often been "over-relayed" with larger and more costly types. Clear plastic covers provide effective insulation, mechanical protection and facilitate inspection. All have 12-pin mounting plugs for insertion into heavy-duty Dunco #27390 sockets. Friction springs on the plugs polarize relays with respect to sockets and prevent them jarring loose. Features include 150V. electrical spacings of 1/4" over the surface and 1/8" through air; and 1500V. dielectric test. All are dimensionally the same except for height.

△ Note: All 115V, 60-cycle types available with neon lamp wired across the coil. Specify feature "44" and add \$1.00 net. (example: 219 BBX44P—\$13.60 net)

ALARM RELAYS for Control and Annunciator Systems

219 FRAME AUXILIARY

Designed for contact reliability through 20 million operations. Withstand normal machine vibration when locked up through

their own contacts. Three standard contact arrangements meet most control needs. See Data Bulletin 6219

AC Coils (continuous duty): 12, 24, 115, 230V; approx. 5 VA.
△ DC Coils (continuous duty): 12, 24, 48, 115V; approx. 1.8 watts.
U.L. Listing: All 219-frame types except those with 230V, AC coils.

TYPE	CONTACTS	NET
With all AC or DC coils except 230V, AC.		
219XBX	DP-DT	\$10.50
219BBXP	DP-DT + 2NO	12.60
219ABAP	DP-DT + 1NO & 1NC	12.60
With 230V AC coils only—Not U.L. listed.		
219XBX230	DP-DT	\$12.50
219BBX230	DP-DT + 2NO	14.60
219ABA230	DP-DT + 1NO & 1NC	14.60

255 FRAME LATCH

The 255 mechanical latch, electrical reset relay combines a 219 relay with a unique latching frame for high contacting reliability over 10 million op-

erations. All contacts operate from same armature to avoid contact overlapping. See Data Bulletin 6255.

Contact ratings and coils same as for 219 frame relays above, except not available with 230V coils.

Type	Contacts	No. coil leads	Net
255XBX	DP-DT	4	\$20.00
255XCXP	3P-DT	3	22.00
255BXBP	2NO-2NC	4	22.00

211 FRAME SEQUENCE

These relays feature a double ratchet movement on each step. An 8-tooth ratchet rotates 1/2 step when coil is energized,

completes step when de-energized. DPDT contacts transfer on each impulse. See Data Bulletin 6211

Contacts: 5 amps. @ 115V. AC. Resistive
DC Coils: 12, 24, 48, or 115V. AC Coils: 12, 24, 115V.

Type 211XBX	DP-DT	Net \$20.70
Type 211AXAP	1NO-1NC	Net \$18.80

235 FRAME TIME DELAY

The 235 Time Delay Duncontrol relay combines an encapsulated 4-level transistorized switching element triggering a 219 Frame relay at a pre-set time. Timing is screwdriver ad-

justable over a 90:1 range. Operates directly from 115V., 60 cycles. See Data Bulletin 6235. Timing Ranges (specify which): 0.2 to 18 seconds; and 2.0 to 180 seconds.

Contacts: 10 amps. 115V. AC resistive
Coil: 115V., 60 cycle. 5.0 MA during timing cycle; 50.0 MA hold-in current after timing.

Type 235AAXP	SP-DT and 1 NO	Net \$50.00
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27390 DUNCONTROL SOCKETS

Heavy-duty type for 219, 255, 235 and 211 frame industrial control relays. Front-connected

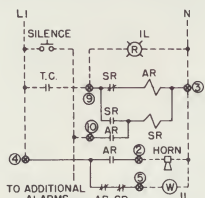
screws have captive clamp plates for up to 2 #14 wires. Twelve terminals. Net \$1.85

Saves wiring time, saves space, saves on initial costs by combining the functions of two separate interwired relays. Units operate from normally-open or normally-closed, sustained or momentary contacts from instruments, safety switches or other devices. Alarm Relay causes alarm to sound and a signal lamp to light. Operator silences alarm by pressing an external pushbutton. Signal lamp may be turned off manually, or it will turn

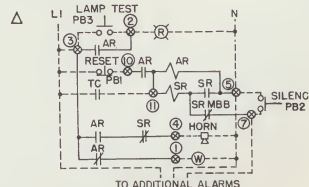
off automatically when alarm condition has been cleared.

Dunco Alarm Relays feature plug-in mountings that speeds installation. Use with #27390 Sockets shown above. Transparent covers provide mechanical protection, insulation, and easy inspection. Units have 150V RMS spacing and will withstand 1,000V RMS breakdown test between all components. See Data Bulletin 9440.

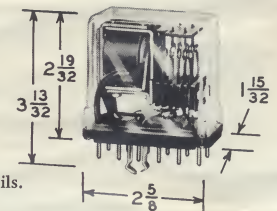
Contacts: 5 amperes @ 115V, AC, Resistive. AC Coils: 115V, 60 cycles



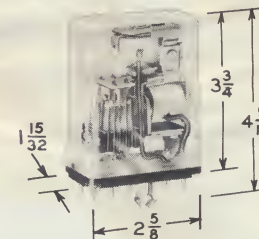
Type RSX1440 wiring. Operates from normally-open trouble contact. \$14.75.



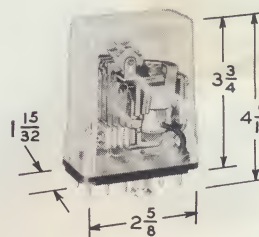
Type RSX1440B wiring. Operates from intermittent trouble contacts and permits testing of trouble signal light. \$16.50.



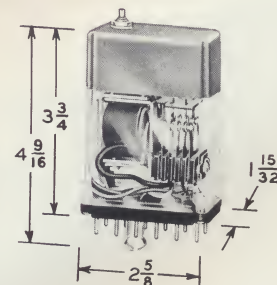
219BBXP



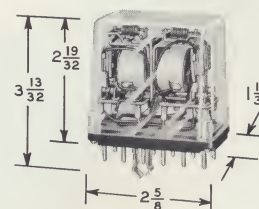
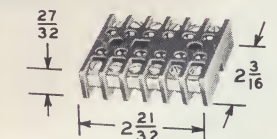
255XCXP



211XBX



235AAXP



RSX1440

LEGEND	
⊗	RED LAMP (TROUBLE)
⊗	PLUG CONNECTOR
—	INTERNAL WIRING
---	CUSTOMER'S CONNECTION
AR	ALARM RELAY
SR	SILENCE RELAY
⊗	WHITE LAMP (NORMAL)
T.C.	TROUBLE CONTACT

△ Changed from previous edition.

MIDGET RELAYS

Throughout the years, Struthers-Dunn small relays have scored remarkable records for performance and durability on every type of control application within their scope. A complete range of styles, coil and contact arrangements and prices provide for every control need. See Data Bulletin 2103. For higher current ratings on similar types, see "Power" Relays.

Sequence types operate in predetermined sequence, cams being stepped from one position to next by impulse to coil. Screw terminals. See Data Bulletin 5100.

Latch types have dependable mechanical latching with electrical reset. Screw terminals. See Data Bulletin 4051.

High current types 215XAX and 215XBX are mounted on a metal base and combine maximum dependability with minimum cost. They have 150V insulation spacing for UL requirements. Solder terminals. See Data Bulletin 2215.

Type	Housing Code	Net	Arrangements	Contact Resistive Ratings
B1HXX	1	\$ 7.40	DB-NO	$\left\{ \begin{array}{l} 6A @ 24V \text{ or } 115V \text{ AC} \\ 3A 230V \text{ AC} \\ 6A 24V \text{ DC} \\ .5A 115V \text{ DC} \end{array} \right.$
B1XAX	1	8.10	SP-DT	
B1BXX	1	9.60	DP-NO	
B1AXA	1	9.60	1NO-1NC	
B1XBX	1	10.40	DP-DT	
A1CXX	2	12.50	3P-NO	
A1XCX	2	14.00	3P-DT	

(All of above relays UL listed)

High-Current Types

18HXX	1	9.40	DB-NO	$\left\{ \begin{array}{l} 15A @ 24V, 48V \text{ \&} 115V \text{ AC} \\ 15A 24V \text{ DC} \\ 5A 48V \text{ DC} \\ .5A 115V \text{ DC} \end{array} \right.$
18XAX	1	9.40	SP-DT	
18BXX	1	10.20	DP-NO	
18AXA	1	10.20	1NO-1NC	
18XBX	1	11.90	DP-DT	
215XAX	—	4.20	SP-DT	$\left\{ \begin{array}{l} 15A 24V \text{ AC or DC;} \\ 13A 115V \text{ AC;} \\ .25A 115V \text{ DC} \end{array} \right.$
215XBX	—	5.90	DP-DT	

Latch Types

51BXX46	3	15.00	DP-NO	$\left\{ \begin{array}{l} 6A @ 24V \text{ or } 115V \text{ AC or DC;} \\ 3A 230V \text{ AC} \\ .5A 115V \text{ DC} \end{array} \right.$
51AXA46	3	15.00	1NO-1NC	
51BXX46	4	25.00	DP-DT	
51BXX46	4	25.00	2NO-2NC	

COILS FOR ALL ABOVE TYPES (Specify when ordering): 6, 12, 24, 115 or 230 Volts 60 cy. 6, 12, 24 or 115V DC. All coils approx. 6VA AC; 3 watts DC. Continuous Duty.

Sequence Types

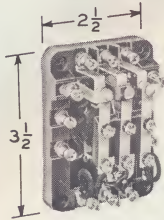
B11BXX	2	20.00	DP-ST	$\left\{ \begin{array}{l} 6A @ 24 \text{ or } 115V \text{ AC} \\ 3A 230V \text{ AC} \\ 6A 24V \text{ DC} \\ .5A 115V \text{ DC} \end{array} \right.$
(Contacts open & close together)				
B11AXA	2	20.00	DP-ST	
(Contacts alternate)				

COILS FOR SEQUENCE TYPES (Specify when ordering): 24, 115 or 230 volts 60 cy. 24 or 115 volts DC. All coils approx. 7VA AC; 6 watts DC impulse duty.

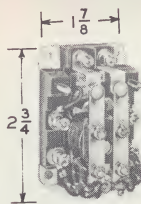
See Page 6 for housings.



B1XBX



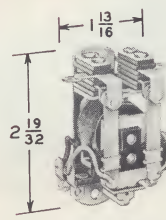
A1XCX



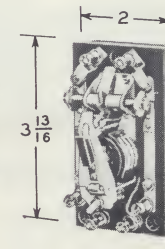
18BXX



215 Frame
SP Contacts



215 Frame
DP Contacts



B11BXX

POWER RELAYS

Heavy-duty contacts transfer when coil is energized, return when de-energized. Ideal for controlling small motors, heaters, solenoids, audible and visual signals, or for transferring power from a main to an auxiliary supply or load. See Data Bulletin 1100.

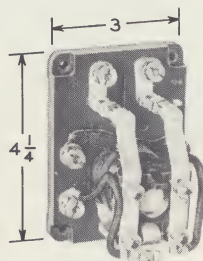
Latch types having electrical release and reset are widely used in tripping, lock-up or lock-out circuits for controlling small motors, heaters and other auxiliary loads. See Data Bulletin 4050.

Sequence types have DP-ST cam-actuated contacts operating in predetermined sequence. Cams step from one position to next by impulse to relay coil. See Data Bulletin 5100. (For smaller Sequence types see "Midget" Relays.)

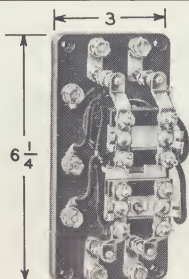
Type	Housing Code	Net	Arrangements	Contact Resistive Ratings
General Use Types				30 Amps 24, 115 or 230V AC 30A 24V DC 3A 115V DC .75A 240V DC
A8HXX*	4	\$13.00	DB-NO	
8BXX*	4	17.00	DP-NO	
8AXA*	4	17.00	1NO-1NC	
A8CXX*	4	19.30	3 NO	
8DXX	4	21.90	4 NO	
84BXX	5	23.90	2NO-2NC	
84XBX	5	21.90	DP-DT	
Latch Types				Note: A8HXX Rated 6A @ 115V DC 3A @ 230V DC
A5BXX46	4	20.00	DP-NO	
A5AXA46	4	20.00	1NO-1NC	
A5BXX46	8	27.00	2NO-2NC	
A5BXX46	8	25.00	DP-DT	

COILS FOR ALL ABOVE RELAYS (Specify when ordering):
COILS—24, 115, 230 or 440 60 cy. 24, 115, 230V DC. All coils for "general use" and "latch" types: 15 VA AC; 7W DC. For "sequence" types: 18VA AC; 14W DC, impulse duty.

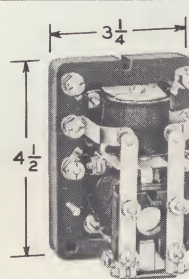
* UL Listed See Page 6 for housings.



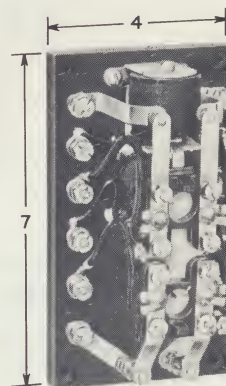
8BXX



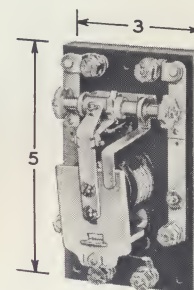
84BXX



A5HXX46



A5BXX46



C85AXA

OOPS!...We Dropped Our Prices

... on General Purpose 214-Frame Relays shown at the top of page 5. New net prices are as follows:

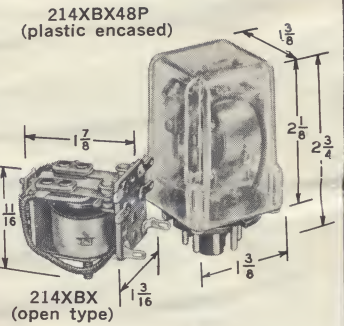
Type	NET With all coils except 115 VDC	NET 115 VDC coils only
214XAX	\$2.80	\$3.10
214XBX	3.10	3.40
214XCX	3.50	3.85
214XAX48P	\$4.40	\$4.80
214XBX48P	5.00	5.50
214XCX48P	6.00	6.60

STRUTHERS-DUNN, INC., Pitman, New Jersey

Printed in U.S.A.

atings	Net
mpers stive 15V AC	\$3.00* 3.40* 3.80*
	5.40* 5.20 7.40*

* Add 60c per relay to above prices for 115V DC coils.



4M764

TIMERS



APSY1
Repeating Timer

ROUND-AND-ROUND

Type APSY1 Round-and-Round Repeating Motor Timer has 1 min. total cycle. 50/50 split adjustable cams operate SP-DT contacts. Housings: Code 4.

Contacts: 10 amps. @ 115V. AC, 5 amps. @ 230V. AC on non-inductive loads; or 1/2 h.p. on 115V. or 230V. AC motor loads.

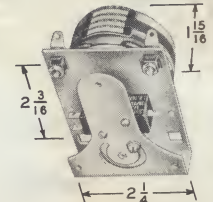
Type APSY1—\$20.00 Net

RECYCLING

Dunco PSAP4 Recycling Motor Timer with adjustable "ON" time delay from 5 to 45 seconds. A SP-DT contact transfers at pre-set time and is held in "operated" position as long as motor is energized. Cam is spring-returned to starting position when de-energized. Housings: Code 2.

Contacts: 10 amps. (1/2 h.p.) @ 115/230V. AC. DC=10 amps. @ 12V.; 1.5 amps. @ 24V.; 0.2 amp. @ 125V.; 0.1 amp. @ 250V.

Type PSAP4, 115/60—\$18.10 Net
Type PSAP2, 230/60—\$18.10 Net



PSAP4
Recycling Timer

MOTOR CONTACTORS Reversing and Non-reversing Types

Type	Service	No. Load Contacts	Aux. Contacts	Net	Amps.	Contact Ratings		
A175KXX	Reversing	3	None	\$26.00	—	H.P.	AC Volts	Phase
A175KXX78	Reversing	3	2NO	29.40	—	2	110/220	2-3
A175KXX79	Reversing	3	2NC	29.40	—	3	440/550	2-3
48KXX	Non-Rev.	3	None	13.00	15	1 1/2	230	1
48LXX	Non-Rev.	4	None	15.00	15	1	115	1

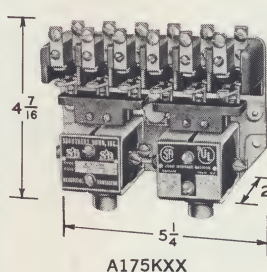
ALL UL AND CSA LISTED

COILS (Specify when ordering): 24, 115, 230 and 440V 60 cycles AC, 24 and 115V DC.

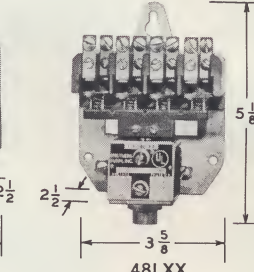
REVERSING

Ruggedly designed for continuous use and jogging service on small hoists, door and window operators, machine tool auxiliaries and other uses requiring reversing service. #8-32 screw terminals.

The Type A175KXX basic unit has 2 mechanically interlocked solenoids on a heavy metal frame, each operating 3 DB NO contacts. Type A175KXX78 is similar, but has NO auxiliary contacts for electrical lockup. Type A175KXX79 has NC auxiliary contacts for electrical interlock. Housings: Code 9. See Data Bulletin 7100.



A175KXX



48LXX

NON-REVERSING

Small, ruggedly built, Dunco 48KXX (3-pole) and 48LXX (4-pole) contactors are inexpensive single-unit (non-reversing) versions of the 175 Frame reversing contactors. Fine silver DB contacts in melamine arc chutes provide generous overload safety factor. Terminals readily accessible from front. Heavy mounting plates assure rigid support. 600-V insulation. ST NO DB contacts, each pair individually sprung to maintain accurate alignment. Housings: Code 6. See Data Bulletin 7048.

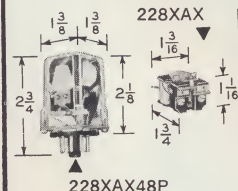
NEW 228 FRAME

New relays which combine the advantages of moderately-priced standard design with the versatility, low power drain and dependability

of special purpose sensitive relays. Require only 15 milliwatts at nominal DC rating. Coil may be operated at five times rated voltage or current values without damage.

COILS (Specify when ordering)
(May be operated at 5-times rated values.)

AC: 115V/60	Relay Net
DC: 1,000 ohms (3.87 ma.)	Open Encl.
2,500 ohms (2.45 ma.)	\$5.00 \$7.00
5,000 ohms (1.71 ma.)	5.00 7.00
10,000 ohms (1.21 ma.)	5.00 7.00
15,000 ohms (1.00 ma.)	5.00 7.00



228XAX48P

Type	Contacts	Contact Rating	Expected Life
228XAX Open	SP-DT fine silver	2 amps. at 115 v. ac	5,000,000
228XAX48P Enclosed, octal plug-in			

112 FRAME

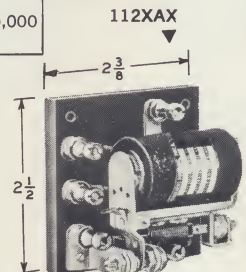
Rugged sensitive relays combine years of development, including new hinge construction

for long, trouble-free life and efficient magnetic circuit that provides positive operation and increased contact pressure with minimum coil current.

Type	Contacts	24V	Contact Ratings 115V	230V	Expected Life
112XAX	SP-DT	2A AC 2A DC	2A AC 0.25A DC	1A AC	1,000,000 operations

COILS (Specify when ordering) Relay Net
AC: 6, 12, 24, or 115 V (0.195 VA) \$13.00

DC: 5,000 ohms (1.6 ma.) \$12.00
11,700 ohms (1.0 ma.) 15.00

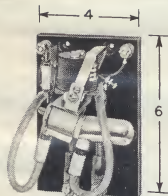


SENSITIVE

Operate on very low current to protect delicate contact instruments or for imposing low drain on limited power source.

MERCURY SWING

Units combine silent operation of swing relays with the reliability of mercury contacts. Ideal for applications in home heating control, studio lighting, and corrosive atmospheres where 5,000,000 operations or more are required.

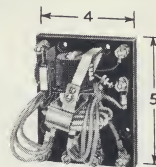


B22AXX19

Type	Contact Arrangement	Tube Amps.	Net
B22CXX	3 NO	30	\$48.00
B22BXX3	2 NO	60	48.00
B22AXX19	1 NO	100	48.00

COILS, AC/DC (Specify voltage when ordering)

Volts	Amps.	Resistance (Ohms)
24	.400	62
115	.078	1475
230	.038	6100

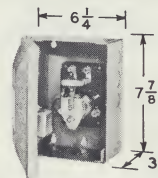


B22CXX

TELEPHONE AUXILIARY RELAY SET

Operates audible or visual signals with a separate local power source, when energized by a telephone ringing current. The set consists of relay and condenser factory-wired in either a sheet metal or weather-

proof housing as indicated. Operates on 8 MA at 76 to 90 volts, 20 cycles. Contacts rated 10 amps. 115V AC or 3 amps. 115V DC. Supplied with 76-90V 20 cycle coil.



4HXX56H3
(sheet metal housing)

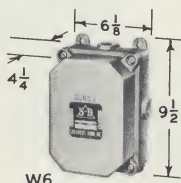
Type 4HXX56H3 (sheet metal housing)—Net \$25.20
Type 4HXX56W6 (weatherproof housing)—Net \$44.90

Dunco RELAY HOUSINGS

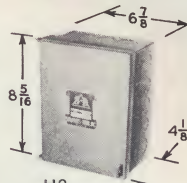
Code designations in the foregoing listings indicate housing types available for the various Dunco relays as per the following table. Code No. 1 for instance indicates that either an H6 sheet metal; an H4 weatherproof; or an H9 explosion proof housing can be supplied. Specify enclosures by type number when ordering. All sheet metal housings have gray crackle finish.

Code	Sheet Metal Type	Sheet Metal Net	Weather Proof Type	Weather Proof Net	Explosion Proof Type	Explosion Proof Net
1	H6	\$6.30	H4	\$6.80	H9	\$13.70
2	H6	6.30	W6	26.30	H21	63.00
3	H3	6.30	W6	26.30	H76	18.50
4	H3	6.30	W6	26.30	H21	63.00
5	H2	8.40	W6	26.30	—	—
6	H3	6.30	W6	26.30	—	—
7	H6	6.30	W6	26.30	H9	13.70
8	H11	11.60	—	—	—	—
9	H12	12.60	—	—	—	—

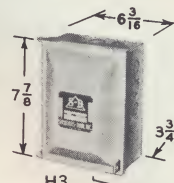
OVERALL DIMENSIONS			
Type	Width	Height	Depth
H2	6 7/8	8 3/8	4 1/8
H3	6 3/8	7 7/8	3 3/4
H4	3	5 5/8	3 1/8
H6	6 3/8	6 3/8	3 5/8
H9	4 1/8	4 1/8	2 5/8
H11	8 7/8	10 3/8	4 1/8
H12	10 7/8	10 3/8	4 1/8
H21	8	7	5 3/8
H76	4 5/8	4 5/8	2 7/8
W6	6 1/4	9 1/2	4 1/4



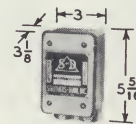
W6



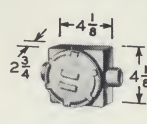
H2



H3



H4



H9

Price List

(For Use With Catalog L)

STRUTHERS-DUNN RELAYS

STRUTHERS-DUNN, Inc., PITMAN, N. J.

This List Supersedes All Previously Published Prices

QUANTITY DISCOUNTS

The following Quantity Discounts apply to all listed prices for single orders and for one shipment.

Quantity	Discount	Multiplier
1-24	NET	1.00
25-49	5%	.95
50-99	10%	.90
100 & up	20%	.80

SELLING POLICY

1. List prices and discounts are subject to change without notice unless specifically guaranteed for a definite period which in no case shall exceed 15 days.
2. Quantity discounts are based on the quantity of one particular type of unit. Units differing in any respect may not be grouped to determine the quantity discount. Each item on an order will be priced on its own merit.

F.O.B. POINT

3. All prices are quoted F.O.B. factory, Pitman, N.J., unless otherwise stipulated.

TERMS

4. Standard terms on orders from accredited sources are net in 30 days from date of invoice.

STANDARD GUARANTEE

5. Struthers - Dunn, Inc. guarantees the products it manufactures to meet the performance stated in printed publications or by its proposals and to be free of original defects in material or workmanship for a period of one (1) year from date of shipment from its factory. Struthers - Dunn, Inc., will repair or replace at its option F.O.B. its factory, any part or parts which, upon inspection at its factory, are found to be defective within this period. Such defective part or parts to be returned to Struthers - Dunn, Inc., all transportation charges prepaid. Struthers-Dunn, Inc., shall not be held responsible for any charges involved in the renewal or replacement of material at the place of operation or for consequential damages arising out of any failures.

Products of other manufacturers, furnished as components of Struthers-Dunn equipment will carry the standard guarantees of the manufacturers involved.

RETURNED APPARATUS

6. Credit for the return of material will not be issued unless authorization and shipping instructions have been issued by Struthers-Dunn. If authorization has been granted, credit will be issued, less a restocking charge and all transportation charges paid

by Struthers-Dunn, after the returned material has been inspected and found suitable for restocking.

MINIMUM BILLING

7. The minimum billing charge on any order will be \$5.00 plus transportation charges.

Catalog L Page 4

A8HXX	\$13.00
8XAX	15.00
8XXA	13.00
8BXX	17.00
8AXA	17.00

A8CXX	19.30
8DXX	21.90
8EXX	24.50
*84DXX	25.70
*84EXX	28.20
*600 volt spacing	

84XXH	16.50
84XXB	18.80

84HXX	21.90
84XXB	21.90
84BXX	23.90

Catalog L Page 5

S. B. Blowouts	\$ 3.80
D. B. Blowouts	7.60
A8HXX6	20.60
8BXX6	24.60
Hinge Pin	3.80

Catalog L Page 6

B22AXX	\$28.00
B22BXX	38.00
B22CXX	48.00
B22XXA	28.00
B22XXB	38.00
B22XXC	48.00
B22AXA	38.00
B22AXB	48.00
B22BXA	48.00

B22AXX3	31.00
B22BXX3	48.00
B22AXA3	48.00
B22XXA3	31.00
B22XXB3	48.00

B22AXX19	48.00
B22XXA19	48.00

Catalog L Page 7

17AXX	\$ 9.00
17XAX	10.80
17XXA	9.00
161HXX	11.10
161XXH	11.10

162BXX	18.80
162XXB	18.80
162XXB	21.90

101HXX	13.80
102HXX	16.20
103HXX	20.00

Catalog L Page 8

B1HXX	\$ 7.40
B1XHX	8.50
B1XAX	8.10
B1XXH	7.40
B1BXX	
B1AXA	
B1XXB	
B1XXB	

B1 Cover B1HXXB1

A1CXX	
A1BAX	
A1ABX	
A1XCX	

B58DXX	22.10
B58XDX	22.00
B58EXX	24.50
B58XEX	24.80
B58FXX	27.90
B58XFX	

Catalog L Page 9

18HXX	\$ 9.40
18XHX	11.10
18XXH	9.40

Page 9 (Cont.)

18AXX	8.70
18XAX	9.40
18XXA	8.70
18BXX	10.20
18AXA	10.20
18XXB	10.20
18AAX	11.10
18XAA	11.10
18XXB	11.90

Catalog L Page 10

119XXB	\$ 4.70
215AXX	3.90
215XXA	3.90
215XAX	4.20
215BXX	5.10
215AXA	5.10
215XXB	5.10
215XXB	5.90

OOPS!...We Dropped Our Prices

... on General Purpose 214-Frame Relays shown at the top of page 5. New net prices are as follows:

Type	NET With all coils except 115 VDC	NET 115 VDC coils only
214XAX	\$2.80	\$3.10
214XXB	3.10	3.40
214XCX	3.50	3.85
214XAX48P	\$4.40	\$4.80
214XXB48P	5.00	5.50
214XCX48P	6.00	6.60

STRUTHERS-DUNN, INC., Pitman, New Jersey

Printed in U.S.A.

4M764

20-40G	\$12.00
41G	13.40
42G	15.00
43G	18.60
44G	20.50

112XAX(AC)	
20-40G	\$13.00
41G	14.50
42G	16.10
43G	19.60
44G	21.50

Page 18 (Cont.)

112XBX (DC)	
20-40G	\$18.00
41G	19.40
42G	21.00
43G	24.60
44G	26.50

112XBX (AC)	
20-40G	\$19.00
41G	20.50
42G	22.10
43G	25.60
44G	27.50

Catalog L
Page 19

29XAX	\$15.40
A29XHX	21.90
A29BXX	18.00
A29AXA	18.00
A29XXB	18.00
A29XBX	21.90

Catalog L
Page 20

A5HXX46	\$17.40
A5BXX46	20.00
A5AXA46	20.00

A5HXX46	23.90
A5XBX46	25.00
A5BXX46	27.00

A5CXX	22.40
A5DXX	25.00

Coil Circuits Feature

Both	75	6.40
Latch	76	3.20
Pull-In	77	3.20

Catalog L
Page 21

A54XCX	\$29.00
A54CXC	31.70
A54XDX	33.00
A54DXD	36.80

51HXX46	15.00
51BXX46	15.00
51AXA46	15.00

51XBX46	25.00
51DXX	25.00
51BXX46	25.00

Catalog L
Page 22

B11	\$20.00
C85	31.70

Page 22 (Cont.)

Special Sequences

8 Tooth	\$ 1.90
Others	6.30

Catalog L
Page 23

95 Frame Basic	\$44.10
Each ST Contact	8.40
Each DT Contact	12.60

96 Frame Basic	115.50
Each ST Contact	8.40
Each DT Contact	12.60

99 Frame Basic	50.40
Each ST Contact	8.40

Catalog L
Page 24

211AXA	\$13.00
211BXX	13.00
211XBX	13.90

Standard Sequence only

Add 1.40 for 6 tooth ratchet
Add 1.10 for special sequence

Catalog L
Page 25, Schedule (2)

219XBXP	10.50
219BBXP	12.60
219ABAP	12.60
27390 Socket	1.85
(any quantity)	(each net)

Catalog L
Page 26, Schedule (2)

255XBXP	20.00
255XCXP	22.00
255BXP	22.00
235AAXP	50.00
211AXAP	18.80
211BXXP	18.80
211XBXP	20.70

Catalog L
Page 27

A175KXX	\$26.00
A175KXX78	29.40
A175KXX79	29.40

Catalog L
Page 28

48KXX	13.00
48LXX	15.00

Catalog L
Page 30

BPW	\$21.90
APHAH1	24.80
PHAJ1	45.80
APHAG2	35.80
PHAGJ1	44.90
APTAH1	21.90
PTAJ2	32.30
APBAG1	29.90
PBAGJ1	46.60
APTBK1	29.30
PTBL1	33.80

Catalog L
Page 31

115/60	1 RPM	
APSY1		\$20.00
2 Pole		29.90
3 Pole		39.80
PSAP4		18.10
PSAP2		18.10
PSAU1		59.70
PSCU1		59.70

Catalog L
Page 32

31BXX	\$21.00
31CXX	27.00
31DXX	43.70
38BXX	35.90
A38CXX	41.00
A38DXX	45.20
130BXX100	13.30

Catalog L
Page 33

4HXX56H3	\$25.20
4HXX56W6	44.90
A5XXH501W6	62.00
20XXH5	10.70
49XAX (DC)	32.80
149XAX (AC)	32.80

Catalog L
Page 36

8BXX	\$17.00
8BXX12	17.00
8BXX10	17.00 + (6 x .60) = 20.60
8BXX16	17.00 + (6 x .80) = 21.80
8BXX11G2	17.00 + (6 x 1.00) + 3.20 = 26.20
8BXX10G2	17.00 + (6 x .60) + 3.20 = 23.80
8BXX16G2	17.00 + (6 x .80) + 3.20 = 25.00

Table 1 -- Price Additions per Terminal

Line	Type of Mounting	Terminal Size	
		6-32	10-32
1	Switchboard Studs	\$.50	\$.60
2	Insulated Switchboard	.60	.80
3	Front Terminals on Glass Covered Relays	*	1.00
*	#10-32 Terminals Used		

Table 2 -- Glass Covers

Cover Type	Price Addition	Cover Type	Price Addition
G1	\$ 5.30	G7	\$11.00
G2	3.20	G8	11.60
G4	13.10	G9	11.00
G6	11.00	G10	3.20

Catalog L
Page 37

Mounting additional relays 1.10/relay

Special Housings

H4 Weatherproof	6.80
W6 Weatherproof	26.30
H9 Exp. Proof	13.70
H21 Exp. Proof	63.00
H17	4.20
H2	8.40
H3	6.30
H6	6.30
H10	10.50
H11	11.60
H12	12.60
H13	12.60
H14	13.70
H15	14.70
H16	16.80



STRUTHERS-DUNN, Inc., Pitman, New Jersey